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ABSTRACT OF THE DISCLOSURE

A process for the electrophoretic analysis of DNA fragments produced in DNA sequencing operations wherein chromophores or fluorophores are used to tag the DNA fragments produced by the sequencing chemistry and permit the detection and characterization of the fragments as they are resolved by electrophoresis through a gel. Preferably four different fragment sets are tagged with the fluorophores fluorescein, Texas Red, tetramethyl rhodamine, and 7-nitrobenzofurazan.

A system for the electrophoretic analysis of DNA fragments produced in DNA sequencing operations comprising: a source of chromophore or fluorescent tagged DNA fragments; a zone for contacting an electrophoresis gel; means for introducing said tagged DNA fragments to said zone; and photometric means for monitoring said tagged DNA fragments as they move through said gel.

B *Ins. Gt* *Sub* *1013 46N*
~~This is a continuation-in-part of United States Serial No. 6722,742, filed April 11, 1985, *(now abandoned)* which was a continuation-in-part of United States Serial No. 689,013 filed January 2, 1985, *(now abandoned)* which, in turn, was a continuation-in-part of United States Serial No. 570,973, filed January 16, 1984, now abandoned.~~